ABSTRACT

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A method for the diagnosis of SMEI in a patient comprising:

- (1) detecting an alteration in the SCN1A gene, including in a regulatory region of the gene, in a patient sample;
 - (2) ascertaining whether the alteration is known to be SMEI associated or non-SMEI associated; and
- (3) (a) establishing a diagnosis of a high probability of SMEI where the alteration is known to be SMEI associated; or
 - (b) establishing a diagnosis of a low probability of SMEI where the alteration is non-SMEI associated; or
 - (e) or, if not known to be either,
 - (i) considering genetic data for parents and/or relatives;
 - (ii) establishing whether the alteration has arisen de novo or is inherited; and
- 20 (iii) establishing a diagnosis of a low probability of SMEI where the alteration is inherited but a diagnosis of a high probability of SMEI if the alteration is de novo.